BRAIN RESEARCH

VOL. 807 NOS. 1,2 **CONTENTS** **5 OCTOBER 1998**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – EMBASE/Excerpta Medica – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Elsevier BIOBASE/Current Awareness in Biological Sciences

Interactive report (Also accessible at **http://www.elsevier.nl/locate/bres** or **http://www.elsevier.com/locate/bres**)

Volatile anesthetics directly activate baseline S K^+ channels in *Aplysia* neurons
B.D. Winegar and C.S. Yost (USA) 255

Research reports

Glial cells potentiate kainate-induced neuronal death in a motoneuron-enriched spinal coculture system
W. Vandenberghe, L. Van Den Bosch and W. Robberecht (Belgium) 1

Effects of ZD6169, a K_{ATP} channel opener, on bladder hyperactivity and spinal c-*fos* expression evoked by bladder irritation in rats
Y. Yu and W.C. De Groat (USA) 11

Adenosine A1 receptor activation inhibits LTP in sympathetic ganglia
Y.H. Hogan, R. Hawkins and K.A. Alkadhi (USA) 19

Effects of neonatal focal cerebral hypoxia–ischemia on sleep–waking pattern, ECoG power spectra and locomotor activity in the adult rat
D. Antier, B.-L. Zhang, F. Mailliet, S. Akoka, L. Pourcelot and F. Sannajust (France) 29

Lateralized effects of ethanol on aggression and serotonergic systems in *Anolis carolinensis*
A. Wallace Deckel, R. Lillaney, P.J. Ronan and C.H. Summers (USA) 38

Cortical spreading depression activates trophic factor expression in neurons and astrocytes and protects against subsequent focal brain ischemia
K. Matsushima, R. Schmidt-Kastner, M.J. Hogan and A.M. Hakim (Canada) 47

Inhibition of spontaneous inhibitory postsynaptic currents (IPSC) by noradrenaline in rat supraoptic neurons through presynaptic α_2-adrenoceptors
Y.-F. Wang, I. Shibuya, N. Kabashima, V.S. Setiadji, T. Isse, Y. Ueta and H. Yamashita (Japan) 61

Regulation of cytosol–nucleus pH gradients by K^+/H^+ exchange mechanism in the nuclear envelope of neonatal rat astrocytes
A. Masuda, M. Oyamada, T. Nagaoka, N. Tateishi and T. Takamatsu (Japan) 70

Role of the subthalamo-nigral input in the control of amygdala-kindled seizures in the rat
C. Deransart, B.-T. Lê, C. Marescaux and A. Depaulis (France) 78

Progesterone withdrawal I: pro-convulsant effects
M.H. Moran and S.S. Smith (USA) 84

Progesterone withdrawal II: insensitivity to the sedative effects of a benzodiazepine
M.H. Moran, M. Goldberg and S.S. Smith (USA) 91

Maternal exposure to Δ^9-tetrahydrocannabinol facilitates morphine self-administration behavior and changes regional binding to central μ opioid receptors in adult offspring female rats
G. Vela, S. Martín, L. García-Gil, J.A. Crespo, M. Ruiz-Gayo, J. Javier Fernández-Ruiz, C. García-Lecumberri, D. Pélaprat, J.A. Fuentes, J.A. Ramos and E. Ambrosio (Spain, France) 101

Alzheimer's β-amyloid peptides induce inflammatory cascade in human vascular cells: the roles of cytokines and CD40
Z. Suo, J. Tan, A. Placzek, F. Crawford, C. Fang and M. Mullan (USA) 110

Mechanisms of ischemia-induced taurine release in mouse hippocampal slices
P. Saransaari and S.S. Oja (Finland) 118

Multiple actions of the novel anticonvulsant drug topiramate in the rat subiculum in vitro
H. Kawasaki, V. Tancredi, G. D'Arcangelo and M. Avoli (Canada, Italy) 125

(contents continued on p. 266)

CONTENTS DIRECT

ContentsDirect, the ***free*** e-mail alerting service, delivers the table of contents for this journal directly to your PC, prior to publication. The quickest way to register for **ContentsDirect** is via the Internet at: **http://www.elsevier.nl/locate/ContentsDirect.** If you don't have access to the Internet you can register for this service by sending an e-mail message to cdsubs@elsevier.co.uk - specifying the title of the publication you wish to register for.

0006-8993(19981005)807:1/2;1-Y

BRAIN RESEARCH

VOL. 807 NOS. 1,2 **CONTENTS** **5 OCTOBER 1998**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – EMBASE/Excerpta Medica – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Elsevier BIOBASE/Current Awareness in Biological Sciences

Interactive report (Also accessible at **http://www.elsevier.nl/locate/bres** or **http://www.elsevier.com/locate/bres**)

Volatile anesthetics directly activate baseline S K^+ channels in *Aplysia* neurons
B.D. Winegar and C.S. Yost (USA) 255

Research reports

Glial cells potentiate kainate-induced neuronal death in a motoneuron-enriched spinal coculture system
W. Vandenberghe, L. Van Den Bosch and W. Robberecht (Belgium) 1

Effects of ZD6169, a K_{ATP} channel opener, on bladder hyperactivity and spinal c-*fos* expression evoked by bladder irritation in rats
Y. Yu and W.C. De Groat (USA) 11

Adenosine A1 receptor activation inhibits LTP in sympathetic ganglia
Y.H. Hogan, R. Hawkins and K.A. Alkadhi (USA) 19

Effects of neonatal focal cerebral hypoxia–ischemia on sleep–waking pattern, ECoG power spectra and locomotor activity in the adult rat
D. Antier, B.-L. Zhang, F. Mailliet, S. Akoka, L. Pourcelot and F. Sannajust (France) 29

Lateralized effects of ethanol on aggression and serotonergic systems in *Anolis carolinensis*
A. Wallace Deckel, R. Lillaney, P.J. Ronan and C.H. Summers (USA) 38

Cortical spreading depression activates trophic factor expression in neurons and astrocytes and protects against subsequent focal brain ischemia
K. Matsushima, R. Schmidt-Kastner, M.J. Hogan and A.M. Hakim (Canada) 47

Inhibition of spontaneous inhibitory postsynaptic currents (IPSC) by noradrenaline in rat supraoptic neurons through presynaptic α_2-adrenoceptors
Y.-F. Wang, I. Shibuya, N. Kabashima, V.S. Setiadji, T. Isse, Y. Ueta and H. Yamashita (Japan) 61

Regulation of cytosol–nucleus pH gradients by K^+/H^+ exchange mechanism in the nuclear envelope of neonatal rat astrocytes
A. Masuda, M. Oyamada, T. Nagaoka, N. Tateishi and T. Takamatsu (Japan) 70

Role of the subthalamo-nigral input in the control of amygdala-kindled seizures in the rat
C. Deransart, B.-T. Lê, C. Marescaux and A. Depaulis (France) 78

Progesterone withdrawal I: pro-convulsant effects
M.H. Moran and S.S. Smith (USA) 84

Progesterone withdrawal II: insensitivity to the sedative effects of a benzodiazepine
M.H. Moran, M. Goldberg and S.S. Smith (USA) 91

Maternal exposure to Δ^9-tetrahydrocannabinol facilitates morphine self-administration behavior and changes regional binding to central μ opioid receptors in adult offspring female rats
G. Vela, S. Martín, L. García-Gil, J.A. Crespo, M. Ruiz-Gayo, J. Javier Fernández-Ruiz, C. García-Lecumberri, D. Pélaprat, J.A. Fuentes, J.A. Ramos and E. Ambrosio (Spain, France) 101

Alzheimer's β-amyloid peptides induce inflammatory cascade in human vascular cells: the roles of cytokines and CD40
Z. Suo, J. Tan, A. Placzek, F. Crawford, C. Fang and M. Mullan (USA) 110

Mechanisms of ischemia-induced taurine release in mouse hippocampal slices
P. Saransaari and S.S. Oja (Finland) 118

Multiple actions of the novel anticonvulsant drug topiramate in the rat subiculum in vitro
H. Kawasaki, V. Tancredi, G. D'Arcangelo and M. Avoli (Canada, Italy) 125

(contents continued on p. 266)

CONTENTS DIRECT

ContentsDirect, the ***free*** e-mail alerting service, delivers the table of contents for this journal directly to your PC, prior to publication. The quickest way to register for **ContentsDirect** is via the Internet at: **http://www.elsevier.nl/locate/ContentsDirect.** If you don't have access to the Internet you can register for this service by sending an e-mail message to cdsubs@elsevier.co.uk - specifying the title of the publication you wish to register for.

0006-8993(19981005)807:1/2;1-Y

(contents continued)

Adrenal steroid regulation of central angiotensin II receptor subtypes and oxytocin receptors in rat brain
S.G. Shelat, S.J. Fluharty and L.M. Flanagan-Cato (USA) 135
Neonatal primary neuronal death induced by capsaicin and axotomy involves an apoptotic mechanism
T. Sugimoto, C. Xiao and H. Ichikawa (Japan) 147
Homo- and heterosynaptic long-term potentiation in the medial cortex of the turtle brain in vitro
M.-D. Muñoz, J.-M. Gaztelu and E. García-Austt (Spain, Uruguay) 155
Hyperoxia increases paradoxical sleep rhythm in the pontine cat
I. Arnulf, J.-P. Sastre, C. Buda and M. Jouvet (France) 160

Short communications

Amyloid β-peptide induces apoptosis-related events in synapses and dendrites
M.P. Mattson, J. Partin and J.G. Begley (USA) 167
Fatty acid incorporation depicts brain activity in a rat model of Parkinson's disease
T. Hayakawa, M.C.J. Chang, J.M. Bell, R. Seeman, S.I. Rapoport and N.M. Appel (USA, Japan) 177
Respiratory responses to chemical stimulation of the parabrachial nuclear complex in the rabbit
D. Mutolo, F. Bongianni, M. Carfì and T. Pantaleo (Italy) 182
Learning impairments caused by lesions to the pedunculopontine tegmental nucleus: an artifact of anxiety?
F. Leri and K.B.J. Franklin (Canada) 187
Inhibitory action of CGS 21680 on cerebral cortical neurons is antagonized by bicuculline and picrotoxin—is GABA involved?
J.W. Phillis (USA) 193
Temperature-dependent effect of zolpidem on the $GABA_A$ receptor-mediated response at recombinant human $GABA_A$ receptor subtypes
M. Munakata, Y.-H. Jin, N. Akaike and M. Nielsen (Japan, Denmark) 199
Calcitonin gene-related peptide as a GH secretagogue in human and rat pituitary somatotrophs
Y. Nakamura, A. Shimatsu, H. Murabe, H. Mizuta, C. Ihara and K. Nakao (Japan) 203
Biphasic modulatory action of the selective sigma receptor ligand SR 31742A on *N*-methyl-D-aspartate-induced neuronal responses in the frontal cortex
X. Liang and R.Y. Wang (USA) 208
Effects of various N-terminal fragments of glucagon-like peptide-1(7–36) on food intake in the neonatal chick
M. Furuse, T. Bungo, M. Shimojo, Y. Masuda, N. Saito, S. Hasegawa and K. Sugahara (Japan) 214
Calretinin-like immunoreactivity in the regenerating periodontal Ruffini endings of the rat incisor following injury to the inferior alveolar nerve
K. Hiroshima, T. Maeda, K. Hanada and S. Wakisaka (Japan) 218
Segmental effect of NMDA block in the dorsal horn on the pressor reflex
L.B. Wilson and A.D. Crews (USA) 222
Orphanin FQ stimulates prolactin and growth hormone release in male and female rats
W. Bryant, J. Janik, M. Baumann and P. Callahan (USA) 228
Catecholamine concentrations in rat nasal mucus are modulated by trigeminal stimulation of the nasal cavity
M.T. Lucero and A. Squires (USA) 234
Nitric oxide as a putative messenger molecule in the crayfish olfactory midbrain
K.U.I. Johansson and D.F. Mellon Jr. (USA) 237
The $5\text{-}HT_{1A}$ agonist 8-OH-DPAT increases the number of spike-wave discharges in a genetic rat model of absence epilepsy
K. Gerber, J. Filakovszky, P. Halasz and G. Bagdy (Hungary) 243
Substance P- and CGRP-immunoreactive fibers in the chicken carotid bodies after nodose ganglionectomy and midcervical vagotomy
Y. Kameda (Japan) 246
$GABA_B$ receptor stimulation phase-shifts the mammalian circadian clock in vitro
K.R. Biggs and R.A. Prosser (USA) 250

Author Index 263